

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Trade Name: Cytotoxicity Control Reagent (Saponin)  
 Item Number: CTTX-050  
 Supplier: BioAssay Systems  
 3191 Corporate Place  
 Hayward, CA 94545, USA  
 Tel: 510-782-9988; Fax: 510-782-1588  
 Email: info@bioassaysys.com

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Eye irritation (Category 2A)  
 Specific target organ toxicity- single exposure (Category 3)

**GHS Label elements, including precautionary statements****Pictogram**

Signal word: Warning

**Hazard statements**

H319 Causes serious eye irritation.  
 H335 May cause respiratory irritation.

**Precautionary statements**

P261: Avoid breathing dust/ fume/ gas/ mist/ vapors/spray.  
 P305 + P351 + P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Saponin:** CAS #: 8047-15-2; EC #: 232-462-6

**SECTION 4. FIRST AID MEASURES**

**Eye:** Eye irritation. Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get immediate medical attention.

**Skin:** Itching or burning of the skin. Immediately flush the skin with plenty of water while removing contaminated clothing and shoes. Get immediate medical attention. Wash contaminated clothing before reuse.

**Inhalation:** Remove exposed person from source of exposure to fresh air. If not breathing, clear airway and start cardiopulmonary resuscitation (CPR). Avoid mouth-to-mouth resuscitation.

**Ingestion:** Get immediate medical attention. Do not induce vomiting unless directed by medical personnel.

**SECTION 5. FIRE FIGHTING MEASURES**

**Extinguishing media:** water spray, carbon dioxide, dry chemical powder or appropriate foam.

**Special firefighting procedures:** wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**Unusual fire and explosion hazards:** emits toxic fumes under fire conditions.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Keep unnecessary people away; isolate hazard area and deny entry. Small spills: Take up with sand or other noncombustible absorbent material and place into containers for later disposal. Large spills: Dike far ahead of liquid spill for later disposal. Do not flush to sewer or waterways. Prevent release to the environment if possible.

**SECTION 7. HANDLING AND STORAGE**

**Precautions for safe handling:** Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

**Conditions for safe storage:** Keep container tightly closed in a dry and well-ventilated place.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Follow standard laboratory safety procedures, including wearing chemical safety goggles, face shield, gloves, NIOSH approved respiratory protection and protective clothing. Wash and dry hands.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: solid  
 Color: no data available  
 pH: no data available

Melting point/freezing point: no data available  
 Boiling point: no data available  
 Flash point: no data available  
 Ignition temperature: no data available  
 Autoignition temperature: no data available  
 Lower explosion limit: no data available  
 Upper explosion limit: no data available  
 Vapor pressure: no data available  
 Density: 1.015 - 1.02 g/mL at 20 °C (68 °F)  
 Water solubility: no data available  
 Partition coefficient:  
 n-octanol/water: no data available  
 Relative vapor density: no data available  
 Odor: no data available  
 Evaporation rate: no data available

**SECTION 10. STABILITY AND REACTIVITY**

**Thermal Decomposition:** no decomposition if used according to specifications.

**Dangerous Products of Decomposition:** Carbon oxides.

**Dangerous Reactions:** none.

**SECTION 11. TOXICOLOGICAL INFORMATION**

**Acute toxicity:** Oral LD50: no data available; Inhalation/Dermal LC50: no data available

**Skin corrosion/irritation:** no data available

**Serious eye damage/eye irritation:** no data available.

**Respiratory or skin sensitization:** no data available

**Germ cell mutagenicity:** no data available

**Carcinogenicity:** Not known or reported to be carcinogenic by any reference source including IARC, ACGIH, NTP or OSHA.

**Reproductive toxicity:** no data available

**Teratogenicity:** no data available

**Specific target organ toxicity - single exposure (Globally Harmonized System):** Inhalation - May cause respiratory irritation.

**SECTION 12. ECOLOGICAL INFORMATION**

Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

**SECTION 13. DISPOSAL INFORMATION**

Dispose in accordance with local, state or national regulations.

**SECTION 14. TRANSPORT INFORMATION**

DOT (US) - Not dangerous goods.

IMDG - Not dangerous goods.

IATA - Not dangerous goods.

**SECTION 15. REGULATORY INFORMATION**

**OSHA Hazards:** Irritant

**SARA 302 Components - SARA 302:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components - SARA 313:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards:** Acute Health Hazard

**SECTION 16. OTHER INFORMATION**

The above information is believed to be accurate, but does not purport to be all inclusive and shall be used only as a guide. BioAssay Systems makes no warranty, express or implied, and assumes no responsibility as to the accuracy or suitability of such information or application to the User's intended purpose or for consequences of its use. The Users should make independent decisions regarding the completeness of information based on all sources available.